

## ABSTRACT OF THE DISCLOSURE

An anti-microbial sanitary ware includes a substrate, and an anti-microbial film formed on the substrate and including a protective layer and  
5 anti-microbial metal particles that are dispersed in the protective layer. The protective layer is made from a compound selected from the group consisting of metal nitrides and metal carbides. The anti-microbial metal particles are made from a metal  
10 selected from the group consisting of silver, zinc, and copper.